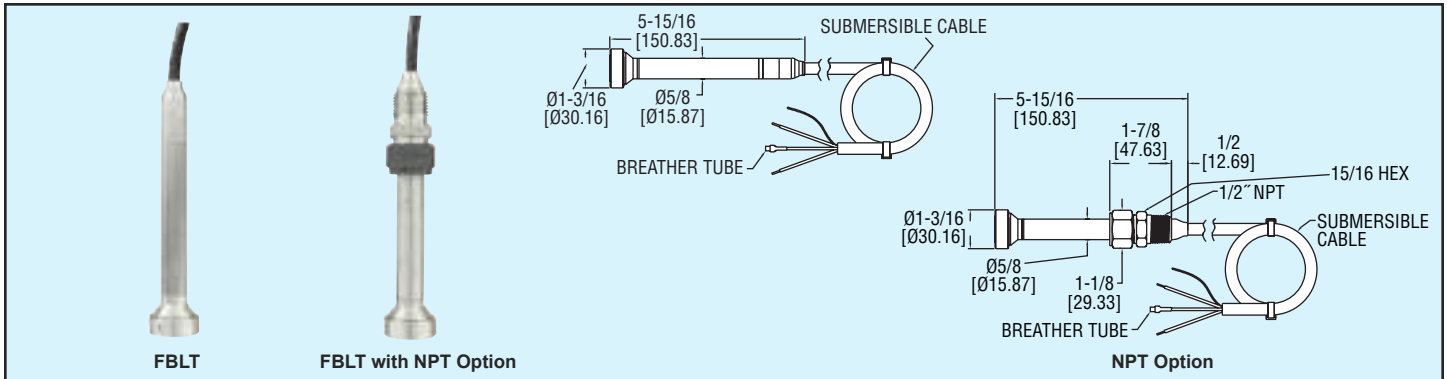




Series  
FBLT

# Flush Tip Submersible Level Transmitter

Perfect for Sludge and Slurries, Lightning Protected,  $\pm 0.25\%$  Accuracy



The Series FBLT Submersible Level Transmitter is designed with a flush diaphragm tip that will not clog in harsh applications such as sewage lift stations. Narrow body design allows the FBLT to fit into stilling wells and narrow installations. The FBLT features a robust FKM fluoroelastomer diaphragm that is PTFE coated for a stick resistant surface that will hold up in aggressive fluids. The diaphragm cavity is filled with a gel that will not leak out versus oil or grease that our competitors use. Body is constructed of 316 SS and the cable is either polyurethane or ETFE for more corrosive applications.

The unit measures the height of liquid above the position that it is mounted in a tank or pit in reference to atmospheric pressure. Ventilation tube in the cable automatically compensates for changes in atmospheric pressure above the fluid. The vent is protected with a maintenance free filter, eliminating particulate or water droplets from entering the transmitter. For extra protection against humidity, we offer the A-297 desiccant filter that can be attached to the vent tube.

The FBLT incorporates lighting and surge protection (not guaranteed or covered by warranty) to stand up in harsh applications. Optional NPT connection allows the unit to be rigidly installed in a pipe/conduit, or to attach our A-625 hanging loop for attaching a chain for pulling out of the installation.

### APPLICATIONS

Sewage lift stations, industrial slurries, industrial sumps, landfill leachate, reservoirs, sludge pits, oil tanks, etc.

### SPECIFICATIONS

**Service:** Compatible liquids.

#### Wetted Materials:

- Body: 316 SS;
- Cable: Polyether polyurethane or ETFE;
- Diaphragm: PTFE coated FKM fluoroelastomer;
- Label: Polyethylene polyamid.

**Accuracy:**  $\pm 0.25\%$  FS (absolute).

**Temperature Limits:** -4 to 176°F (-20 to 80°C).

**Compensated Temperature Limits:** 32 to 140°F (0 to 60°C).

**Thermal Effect:**  $\pm 0.0075\%/^{\circ}\text{F}$  ( $\pm 0.0135\%/^{\circ}\text{C}$ ).

**Pressure Limit:** 2x range.

**Power Requirements:** 10 to 33 VDC.

**Output Signal:** 4 to 20 mA DC 2-wire.

**Response Time:** < 50 ms.

**Max Loop Resistance:** 1000  $\Omega$  @ 30 VDC.

**Electrical Connections:** Wire pigtail.

**Mounting Connection:** Suspended below point being monitored.

**Electrical Protection:** Surge/lightning protected per EN61000-4-5, Class 5.

#### Weight:

- Body: 0.3 lb (0.136 kg);
- Cable: 0.037 lb (0.009 kg) per foot.

**Agency Approval:** CE.

Model	Range	Cable Length	Cable Type
FBLT-2SC-IVPP-5-40	5 psi (11.54' w.c.) (3.52 m w.c.)	40'	Polyurethane
FBLT-2SC-IVPF-15-40	15' w.c.	40'	Polyurethane
FBLT-2SC-IVPF-20-40	20' w.c.	40'	Polyurethane
FBLT-2SC-IVPF-30-50	30' w.c.	50'	Polyurethane
FBLT-2SC-IVEP-5-40	5 psi (11.54' w.c.) (3.52 m w.c.)	40'	ETFE
FBLT-2SC-IVEF-15-40	15' w.c.	40'	ETFE
FBLT-2SC-IVEF-20-40	20' w.c.	40'	ETFE
FBLT-2SC-IVEF-30-50	30' w.c.	50'	ETFE
FBLT-2SC-IVEP-10-40	10 psi (23.09' w.c.) (7.04 m w.c.)	40'	ETFE
FBLT-2SC-IVEP-15-60	15 psi (34.63' w.c.) (10.56 m w.c.)	60'	ETFE
FBLT-2SC-IVPP-10-40	10 psi (23.09' w.c.) (7.04 m w.c.)	40'	Polyurethane
FBLT-2SC-IVPP-10-60	10 psi (23.09' w.c.) (7.04 m w.c.)	60'	Polyurethane
FBLT-2SC-IVPP-15-60	15 psi (34.63' w.c.) (10.56 m w.c.)	60'	Polyurethane
FBLT-2SC-IVPF-35-60	35' of w.c.	60'	Polyurethane
FBLT-2SC-IVPP-20-60	20 psi (46.18' w.c.) (14.08 m w.c.)	60'	Polyurethane

### OPTIONS

Cables can be ordered shorter or longer in polyurethane or ETFE. Please see website for pricing. Other range are available and can be order in psi, ft w.c., or m w.c. Please see website for pricing.

**NPT connection.** Add suffix -NPT, for a 1/2" NPT connection to connect conduit, piping, or cable hanger. All 316 SS

### ACCESSORIES



**A-297, Desiccant Filter** for vent tube. Removes humidity for protection of the sensor. Changes color to show saturation



**A-625, Cable Hanger**, use with NPT option for attaching chain for easy pulling out of application

LEVEL

Level Transmitters,  
Submersible